

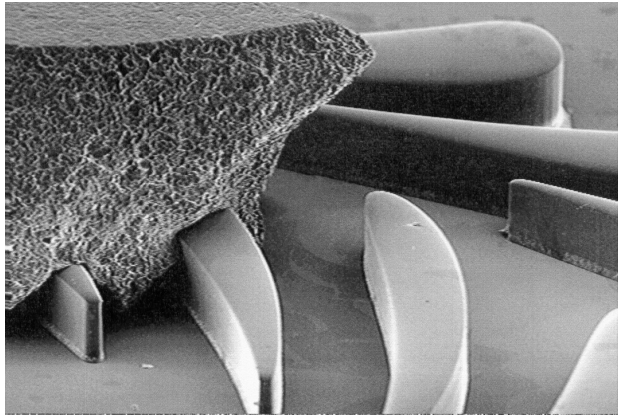


Technology Foundations for Micro-heat Engines



FY94 MURI
Start

Oct. 98



MURI Objective:

- Enhance the fundamental technology base supporting the development of micro-heat engines

DoD Applications:

- Compact power sources, propulsion, and coolers

Scientific/technical Approaches

- micro-magnetic motor generator development
- Chemical vapor deposition for new ceramic MEMS structures capable of high temperature environments
- catalytic microcombustor for conventional hydrocarbon-based fuels
- micromachinery fluid mechanics and heat transfer prediction methodologies

Accomplishments

- New FY98 award: grant initiation date 1 June 1998